

Title (en)

Lithographic Printing method using single-fluid ink

Title (de)

Lithographisches Druckverfahren mit einer Einzelflüssigkeittinte

Title (fr)

Méthode d'impression lithographique utilisant une encre comprenant un fluide unique

Publication

EP 1243433 A1 20020925 (EN)

Application

EP 02100125 A 20020211

Priority

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- EP 01000066 A 20010322

Abstract (en)

A lithographic printing method is disclosed which comprises the steps of providing an imaging material which comprises a support and an image-recording layer or an image-recording surface, wherein said layer or surface is not removable with a single-fluid ink comprising an ink phase and a polar phase; image-wise exposure of the imaging material to heat or light without substantially ablating said image-recording layer or surface, thereby switching the affinity of the image-recording layer or surface towards ink or an ink-abhesive fluid and thereby creating a printing master comprising a lithographic image which consists of unexposed areas that have affinity for one phase of said ink phase and polar phase and of exposed areas that have affinity for the other phase of said ink phase and polar phase; printing, wherein the single-fluid ink is supplied to the printing master. The exposed image-recording layer, which normally exhibits a poor differentiation of hydrophilicity or oleophilicity between exposed and non-exposed areas, provides high quality printed copies in combination with the single-fluid ink.

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Citation (applicant)

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